













Comment	Description	Designator	Footprint	LibRef	Quantity
	Mergen Elektronik - Capacitors -		MergenElektronik_Ca	MergenElektronik_Ca	
100 μF	Capacitors - Aluminum Electrolytics - SMDs -	C1	pacitors_AluminumEle ctrolytics_SMDs_10x1	pacitors_AluminumEle ctrolytics_SMDs_UUX	
	UUX1J101MNL1GS		0.5mm	1J101MNL1GS	
0.33 μF	Mergen Elektronik - Capacitors - Ceramics	C2	MergenElektronik_Ca pacitors_Ceramics_S	MergenElektronik_Ca pacitors_Ceramic_SM	1
	SMDs - 1206 - 0.33 μF 100V		MDs_1206_S_NS	Ds_0.33μF_100V	
10 nF	Mergen Elektronik - Capacitors - Ceramics	C3	MergenElektronik_Ca pacitors_Ceramics_S	MergenElektronik_Ca pacitors_Ceramic_SM	1
IV-IIF	SMDs - 0603 - 10 nF - 100V		MDs_0603_S_NS	Ds_10nF_100V	
	Mergen Elektronik - Capacitors - Ceramics			MergenElektronik_Ca	
100 nF	SMDs - 0603 - 100 nF - 16V, Mergen	C4, C5, C6, C7, C16,	MergenElektronik_Ca	pacitors_Ceramic_SM Ds_100nF_16V,	
	Elektronik - Capacitors - Ceramics	C21, C22, C23, C24	pacitors_Ceramics_S MDs_0603_S_NS	MergenElektronik_Ca pacitors_Ceramic_SM	
	SMDs - 0603 - 100 nF - 100V			Ds_100nF_100V	
	Mergen Elektronik - Capacitors - Ceramics		MergenElektronik_Ca	MergenElektronik_Ca	
50 pF	SMDs - 0603 - 50 pF - 50V	C8, C9, C10, C11, C12	pacitors_Ceramics_S MDs_0402_S_NS	pacitors_Ceramic_SM Ds_50pF_50V	
	Mergen Elektronik - Capacitors - Ceramics		MergenElektronik_Ca	MergenElektronik_Ca	
8 pF	SMDs - 0603 - 8 pF -	C13, C14	pacitors_Ceramics_S MDs_0603_S_NS	pacitors_Ceramic_SM Ds_8pF_50V	
	50V Mergen Elektronik		MergenElektronik_Ca	MergenElektronik_Ca	
18 µF 1 µF	Capacitors - Aluminum	C15, C19, C20	pacitors_AluminumEle ctrolytics_THTs_8x7M	pacitors_AluminumEle ctrolytics_SMDs_63SX	
	Electrolytics - THTs - 63SXE18M		M	E18M	
	Mergen Elektronik - Capacitors - Ceramics		MergenElektronik_Ca	MergenElektronik_Ca	
	SMDs - 1206 - 1 μF - 100V	C17	pacitors_Ceramics_S MDs_1206_S_NS	pacitors_Ceramic_SM Ds_1µF_100V	
	Mergen Elektronik - Capacitors - Ceramics		MergenElektronik_Ca	MergenElektronik_Ca	
1 nF	SMDs - 0402 - 1 nF -	C18	pacitors_Ceramics_S MDs_0402_S_NS	pacitors_Ceramic_SM Ds_1nF_50V	1
	50V Mergen Elektronik -		MergenElektronik_Dio	MergenElektronik_Dio	
TBS606	Diodes - Bridge Rectifiers - TBS606	D1	des_BridgeRectifiers_ TBS606	des_BridgeRectifiers_ TBS606	
DATE HOLDT:	Mergen Elektronik - Diodes - Schottky	D2	MergenElektronik_Dio	MergenElektronik_Dio	
BAT54XV2T1G	Diodes - RATSAXV2T1G	D2	des_SchottkyDiodes_S OD-523	BAT54XV2T1G	
Red	Mergen Elektronik - Leds - SMDs - Red -	D3, D4	MergenElektronik_Led	MergenElektronik_LE	
	0603 Mergen Elektronik		s_SMDs_0603_S_NS	Ds_SMDs_Red_0603 MergenElektronik_LE	
Green	Leds - SMDs - Green -	D5, D6	MergenElektronik_Led s_SMDs_0603_S_NS	Ds_SMDs_Green_060	1
	0603 Mergen Elektronik -	03 00 00	MergenElektronik_Dio	3 MergenElektronik_Dio	
SL310A-TP	Diodes - Schottky Diodes - SL310A-TP	D7, D8, D9	des_SchottkyDiodes_ DO-214AC (SMA)	des_SchottkyDiodes_S L310A-TP	
MBR1560S	Mergen Elektronik - Diodes - Single Diodes	D10	MergenElektronik_Dio des_SingleDiodes_TO-	MergenElektronik_Dio des_SingleDiodes_MB	
	MBR1560S Mergen Elektronik -		277B MergenElektronik_Fus	R1560S MergenElektronik Fus	
3568	Fuse Holder - Blade Type - 3568	F1	eHolders_BladeType_ 3568	eHolders_BladeType_ 35A8	1
MAXS084ATT+T	Mergen Elektronik - Regulators - Linears -	IC1	MergenElektronik_Re gulators Linears 6	MergenElektronik_Re gulators_Linears_MAX	
Assemiliti	MAXS084ATT+T Mergen Flektronik		TDFN MergenElektronik_Re	5084ATT+T MergenElektronik_Re	
NCP1117 - 3v3	Regulators - Linears - NCP1117ST33T3G	IC2	gulators_Linears_SOT	gulators_Linears_NCP 1117ST33T3G	
	Mergen Elektronik -		223 MergenElektronik_Co	MergenElektronik_Co	
1x4	Connectors - Headers 1x4 Male	J1	nnectors_Headers_1x 4_Male	nnectors_Headers_1x 4_Male	
75 µH	Mergen Elektronik - Inductors - Power	L1, L2, L3	MergenElektronik_Ind uctors_PowerInductor	MergenElektronik_Ind uctors_PowerInductor	
	Inductors - SMDs - 8x8mm 75-uh - 1.2A	1,12,13	s_SMDs_8x8x4mm_Sh ielded	s_SMDs_ASPI-8040S- 750M-T	
0ZCK0020FF2G	Mergen Elektronik - Circuit Protections -	PTC1	MergenElektronik_Cir cuitProtections_PTCs_	MergenElektronik_Cir cuitProtections_PTCs_	
	PTCs - 0ZCK0020FF2G Mergen Elektronik -		0603_S_NS MergenElektronik_Tra	0ZCK0020FF2G MergenElektronik_Tra	
DMN10H220LK3-13	Transistors - Mosfets - DMN10H220LK3-13	Q1, Q2, Q3	nsistors_Mosfets_TO- 252-3(DPAK)	nsistors_Mosfets_DM N10H220LK3.13	1
BSS138LT1G	Mergen Elektronik - Transistors - Mosfets -	04	MergenElektronik_Tra nsistors Mosfets SOT	MergenElektronik_Tra rssistors Mosfets BSS	
	BSS138LT1G Mergen Elektronik -		23 MergenElektronik_Res	138LT1G MergenElektronik_Res	
10K	Resistors - Chip	R1, R11, R14, R15, R23, R24, R25, R26	istors ChipResistors	istors_ChipResistors_	1
	Resistors - 0603 - 10K Mergen Elektronik -		0603_S_NS MergenElektronik_Res	0603_10K MergenElektronik_Res	
2K	Resistors - Chip Resistors - 0603 - 2K	R2	istors_ChipResistors_ 0603_S_NS	istors_ChipResistors_ 0603_2K	
330	Mergen Elektronik - Resistors - Chip	R3, R5, R6, R7, R9,	MergenElektronik_Res istors ChipResistors	MergenElektronik_Res istors ChipResistors	1
330	Resistors - 0603 -	R12, R16, R22	0603_S_NS	0603_330R	<u></u>
40K	Mergen Elektronik - Resistors - Chip	R4, R18	MergenElektronik_Res istors_ChipResistors_	MergenElektronik_Res istors_ChipResistors_	
	Resistors - 0603 - 40K Mergen Elektronik -		0603_S_NS	0603_40K	
200K	Resistors - Chip Resistors - 0603 -	R8	MergenElektronik_Res istors_ChipResistors_	MergenElektronik_Res istors_ChipResistors_	
	Resistors - 0603 - 200K Mergen Elektronik -		0603_S_NS MergenElektronik_Res	0603_200K MergenElektronik Res	
1K	Resistors - Chip	R10, R13, R17	MergenElektronik_Res istors_ChipResistors_ nsn3 S NS	MergenElektronik_Res istors_ChipResistors_ 0603_1K	1
	Resistors - 0603 - 1K Mergen Elektronik -	040	MergenElektronik_Res	MergenElektronik_Res	
22	Resistors - Chip Resistors - 0603 - 22	R19	istors_ChipResistors_ 0603_S	istors_ChipResistors_ 0603_22	
6.65K	Mergen Elektronik - Resistors - Chip	R20	MergenElektronik_Res istors_ChipResistors_	MergenElektronik_Res istors ChipResistors	
Aco.o	Resistors - 0603 - 6.65K	n.zu	istors_ChipResistors_ 0603_S_NS	istors_ChipResistors_ 0603_6.65K	
3.3K	Mergen Elektronik -	0.04	MergenElektronik_Res	MergenElektronik_Res	
	Resistors - Chip Resistors - 0603 - 3.3K	R21	istors_ChipResistors_ 0603_S_NS	istors_ChipResistors_ 0603_3.3K	1
ALO105	Mergen Elektronik -	Relay1	MergenElektronik_Rel	MergenElektronik_Rel ays_PowerRelays_AL	
~4100	Relays - Power Relays ALQ105	nudyi	ays_PowerRelays_AL Q106 MergenElektronik_Swi	ays_PowerRelays_AL Q105 MergenElektronik_Swi	
PTS815-SJM	Mergen Elektronik - Switches - Tactile	S1	tches_TactileSwitches	tches_TactileSwitches	1
07000 court	Switches Mergen Elektronik -		_PTS815 MergenElektronik_Swi	_PTS815-SJM MergenElektronik_Swi	
PTS526 SK15 SMTR2 LPS	Switches - Tactile Switches - PTS526	S2, S3, S4	tches_TactileSwitches	tches_TactileSwitches _PTS526 SK15 SMTR2	1
	SK15 SMTR2 LFS Mergen Elektronik		_PTS526 MergenElektronik_Mi	LFS MergenElektronik_Mi	ļ
STM32C011F6U6TR	Microcontrollers - STMicroelectronics -	U1	crocontrollers_STMicr oelectronics_UFQFPN	crocontrollers_STMicr oelectronics_STM32C	1
	STM32C011F6U6TR		20	011F6U6TR	
UCC27282DRCT	Mergen Elektronik - Logics - Gate Drivers -	U2	MergenElektronik_Log ics_GateDrivers_10VS	MergenElektronik_Log ics_GateDrivers_UCC2	1
	UCC27282DRCT Mergen Elektronik -		ON MergenElektronik_Sen	7282DRCT MergenElektronik_Sen	
ACS711KEXLT-31AB-T	Sensors - Current Sensors -	U3	MergenElektronik_Sen sors_CurrentSensors_ ACS711KEXLT-31AB-T	sors_CurrentSensors_	1
	ACS711KEXLT-31AB-T Mergen Elektronik -		ACS711KEXLT-31AB-T MergenElektronik_Scr	ACS711KEXLT-31AB-T MergenElektronik_Scr	-
16*2 LCD Module	Screens - LCDs - 16x2	U4	eens_LCDs_16x2Mod	eens_LCDs_16x2Mod	1
	module:		ule MergenElektronik_Os	MergenElektronik_Os	
48 MHz	Mergen Elektronik - Oscilators - Crystals -	X1	cillators_Crystals_2-	cillators_Crystals_2_S	